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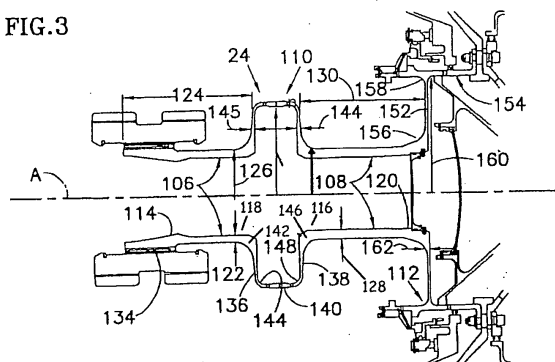
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(54) **Flexible shaft for a gas turbine engine**

(57) A shaft for a gas turbine engine is provided that includes a first shaft section (106), a second shaft section (108), a first flexible linkage (110), and a second flexible linkage (112). The first shaft section (106) extends between a forward axial end (114) and an aft axial end (118) along a first axial centerline (194). The second shaft section (108) extends between a forward axial end (116) and an aft axial end (120) along a second axial centerline (196). The first flexible linkage (110) includes a bridge section (140) connected between a first diaphragm (136) and a second diaphragm (138). The first diaphragm (136) is connected to the aft axial end (118) of the first shaft

section. The second diaphragm (138) is connected to the forward axial end (116) of the second shaft section. The second flexible linkage (112) includes a diaphragm (152) and a hub (154). The second flexible linkage diaphragm cantilevers radially outwardly from an inner radial end (156) to an outer radial end (158), and is connected to the aft axial end (120) of the second shaft section. The hub (154) is connected to the outer radial end (158) of the second flexible linkage diaphragm (152), and includes an engine shaft coupling (172) connected to the hub.

FIG.3





EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 February 2015	Examiner Steinhauser, Udo
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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